

PUBLICATION NUMBER : 07213183
PUBLICATION DATE : 15-08-95

APPLICATION DATE : 04-02-94
APPLICATION NUMBER : 06031982

APPLICANT : SAPPORO BREWERIES LTD;

INVENTOR : KISHINAMI ISAO;

INT.CL. : A01H 4/00

TITLE : METHOD FOR REGENERATING PLANT BODY OF BARLEY

ABSTRACT : PURPOSE: To breed a new variety by isolating a protoplast from a callus induced from a tissue of barley (*Hordeum vulgare* L. var. *hexastichon* Aschers.), culturing the isolated protoplast, providing a fertile plant body and efficiently carrying out the regeneration of the plant body of the barley.

CONSTITUTION: This method for regenerating a plant body of barley (*Hordeum vulgare* L. var. *hexastichon* Aschers.) is to isolate a protoplast from a callus induced from a tissue of the barley such as an unripe embryo without substantially passing through a step for liquid shaking culture, culture the isolated protoplast, thereby further culture the formed protoplast, provide a fertile plant body and carry out the regeneration of the plant body of the barley. Furthermore, auxin or cytokinin or both at a low concentration of ≤ 2.0 mg/l are preferably blended in the culture medium for the callus.

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